~~09/886,003~~ 09/886,011

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=> s dye label? ribonucleotide?
L1 5 DYE LABEL? RIBONUCLEOTIDE?

=> d l1 bib abs 1-5

L1 ANSWER 1 OF 5 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 2002:104663 BIOSIS
DN PREV200200104663
TI Alternative **dye-labeled ribonucleotides**, deoxyribonucleotides, and dideoxyribonucleotides for automated DNA analysis.
AU Metzker, M. L.; Gibbs, R. A.
CS Houston, Tex. USA
ASSIGNEE: BAYLOR COLLEGE OF MEDICINE
PI US 5728529 March 17, 1998
SO Official Gazette of the United States Patent and Trademark Office Patents, (March 17, 1998) Vol. 1208, No. 3, pp. 2315-2316.
ISSN: 0098-1133.
DT Patent
LA English

L1 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2003 ACS
AN 2003:6086 CAPLUS
TI **Dye-labeled ribonucleotide** triphosphates for use in DNA sequencing and detection of mutations or 5-methylcytosine in DNA
IN Fisher, Peter Virgil; Vatta, Paolo; Khan, Shaheer H.
PA Pe Corporation (Ny), USA
SO PCT Int. Appl., 96 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

09567863

PI WO 2003000841 A2 20030103 WO 2002-US16587 20020621
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
US 2003013089 A1 20030116 US 2001-886011 20010622
PRAI US 2001-886011 A 20010622
AB The invention provides novel **dye-labeled ribonucleotide** analogs and methods for synthesizing those analogs. The compds. of the invention are esp. useful for DNA sequencing by the polymerase chain reaction. Thus, ribonucleoside triphosphate labeled with ROX, R6G, TAMRA, and R110 were prepd. and used in PCR sequencing of DNA, PCR detection of SNPs, and in detn. of the methylation state of DNA. The fluorophores were attached to the 7 position of 7-deazapurines and to the 5 position of pyrimidines via propargylamine or propargyloxyethylamine linkers.

L1 ANSWER 3 OF 5 USPATFULL
AN 2003:17337 USPATFULL
TI **Dye-labeled ribonucleotide** triphosphates
IN Fisher, Peter Virgil, El Granada, CA, UNITED STATES
Vatta, Paolo, San Mateo, CA, UNITED STATES
Khan, Shaheer H., Foster City, CA, UNITED STATES
PI US 2003013089 A1 20030116
AI US 2001-886011 A1 20010622 (9)
DT Utility
FS APPLICATION
LREP FINNEGAN, HENDERSON, FARABOW, GARRETT &, DUNNER LLP, 1300 I STREET, NW, WASHINGTON, DC, 20006
CLMN Number of Claims: 123
ECL Exemplary Claim: 1
DRWN 4 Drawing Page(s)
LN.CNT 2302
AB The invention provides novel **dye-labeled ribonucleotide** analogs and methods for synthesizing those analogs. The compounds of the invention are especially useful for DNA sequencing by the polymerase chain reaction.

L1 ANSWER 4 OF 5 USPATFULL
AN 2003:6797 USPATFULL
TI Methods for identifying RNA binding compounds
IN Rana, Tariq M, Piscataway, NJ, United States
PA University of Medicine and Dentistry of New Jersey, New Brunswick, NJ, United States (U.S. corporation)
PI US 6503713 B1 20030107
AI US 2000-679451 20001004 (9)
PRAI US 1999-157646P 19991004 (60)
DT Utility
FS GRANTED
EXNAM Primary Examiner: Riley, Jezia
LREP Pennie & Edmonds LLP
CLMN Number of Claims: 50
ECL Exemplary Claim: 1
DRWN 8 Drawing Figure(s); 4 Drawing Page(s)
LN.CNT 2033
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

09567863

AB The present invention relates to methods of screening for compounds that bind RNA molecules. In particular, the methods of the invention comprise screening a library of test compounds, each of which is attached to a solid support, with a dye-labeled RNA molecule to form a dye-labeled target RNA:support-attached test compound complex. By virtue of the dye label on the target RNA, the support becomes labeled and can be separated from unlabeled solid supports. The present invention further relates to methods of inhibiting an RNA-protein interaction, to methods of screening for compounds that increase or decrease the production of a protein, and to methods of screening for a compound that is capable of treating or preventing a disease whose progression is associated with an in vivo binding of a test compound to a target RNA.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L1 ANSWER 5 OF 5 USPATFULL
AN 1998:27911 USPATFULL
TI Alternative **dye-labeled ribonucleotides**, deoxyribonucleotides, and dideoxyribonucleotides for automated DNA analysis
IN Metzker, Michael L., Houston, TX, United States
Gibbs, Richard A., Houston, TX, United States
PA Baylor College Of Medicine, Houston, TX, United States (U.S. corporation)
PI US 5728529 19980317
AI US 1995-553936 19951106 (8)
RLI Continuation-in-part of Ser. No. US 1995-494216, filed on 23 Jun 1995, now patented, Pat. No. US 5614386
DT Utility
FS Granted
EXNAM Primary Examiner: Jones, W. Gary; Assistant Examiner: Rees, Dianne
LREP Fulbright & Jaworski L.L.P.
CLMN Number of Claims: 17
ECL Exemplary Claim: 1
DRWN 2 Drawing Figure(s); 2 Drawing Page(s)
LN.CNT 940
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Methods for the use of a class of dyes for improved DNA sequencing by the chain termination method of DNA sequencing, and internal labelling of polynucleotides by enzymatic incorporation of fluorescently-labeled ribonucleotides or deoxyribonucleotides are provided. A new class of dyes, BODIPY.RTM. fluorophores, has been described recently. The parent heterocyclic molecule of the BODIPY.RTM. fluorophores is a dipyrrometheneboron difluoride compound which is modified to create a broad class of spectrally-discriminating fluorophores. BODIPY.RTM. fluorophores have improved spectral characteristics compared to conventional fluorescein and rhodamine dyes. BODIPY.RTM. fluorophores have narrower band width, insensitivity to solvent or pH, and improved photostability, thus, BODIPY.RTM. fluorophores lead to improved DNA sequencing and/or detection in any method where electrophoresis and detection of DNA is required. Additionally, the spectral properties of the BODIPY.RTM. fluorophores are sufficiently similar in wavelength and intensity to be used with conventional equipment known in the art.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d l1 4-5 kwic

L1 ANSWER 4 OF 5 USPATFULL
DETD . . . template-directed enzymatic extension of the primed template (e.g., a mixture including GTP, ATP, CTP, and UTP), including one or

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more **dye-labeled ribonucleotides** (Sigma-Aldrich, St. Louis, Mo.), is added to the primed template. Next, a polymerase enzyme is added to the mixture under. . .

L1 ANSWER 5 OF 5 USPATFULL

TI Alternative **dye-labeled ribonucleotides**, deoxyribonucleotides, and dideoxyribonucleotides for automated DNA analysis

SUMM . . . an object of the present invention to provide methods for labelling internally RNA or DNA fragments by enzymatic incorporation of **dye-labeled ribonucleotides** or deoxynucleotides. The labeled fragments may then be analyzed.

DETD . . . "Buffer A" is 100 mM triethylammonium acetate (TEAA), pH 7.0 and "Buffer B" is 100 mM TEAA, 70% (v/V) acetonitrile. **Dye-labeled ribonucleotides**, deoxynucleotides or dideoxynucleotides were purified using the following gradient conditions: 0% B, 5 minutes; 0% B-40% B, 30 minutes; 40%. . .

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